

benchtop pulverizer with automatic feeder and vacuum cleaner

Benchtop Pulverizer is a sample preparation equipment widely used in coal, electric power, iron and steel metallurgy, geology and building materials, third-party testing and other industries, specializing in pulverizing coal samples, mineral samples and other solid materials.

Benchtop Pulverizer

The benchtop pulverizer meets the requirements of GB474 “Method of Preparation of Coal Samples” and other relevant standards, providing high-precision pulverized samples for experiments and testing, with strong practicality and reliability.

Features

1. Fully sealed benchtop design: prevents dust leakage, aligns with environmental requirements, and protects both operators and the environment from pollution.
2. High-strength grinding sample disk: integrated dynamic balance, made from special hardened materials for enhanced wear resistance and service life, ensuring stable crushing effect.



3. Special screen design: crafted from special materials and processed with advanced technology for high screening precision and reduced powder residue.
4. Spiral feeder: enables continuous and automatic material supply for uniform feeding, enhancing speed and efficiency of sample preparation.
5. Safety design: automatic power-off when the door is opened, ensuring safe operation and compliance with safety production standards.
6. High-efficiency dust-absorbing device: effectively adsorbs dust and prevents leakage, maintaining a clean experimental environment and operator health.
7. Low noise, smooth operation: runs quietly and smoothly, suitable for long-term continuous use and providing a quiet working environment.

Advantages

1. Strong environmental protection: sealed structure and dust suction device prevent dust leakage, reduce air pollution, and meet modern environmental protection needs.
2. High efficiency and speed: spiral feeder supports automatic, continuous feeding, ensuring efficient sample preparation, ideal for large-scale tasks.
3. Safe and reliable: automatic power-off feature protects operators and avoids accidents, aligning with safety standards.

4. High quality and durability: hardened grinding disk and screen offer wear resistance and long life, reducing replacement costs.
5. Stable operation: smooth, low-noise operation suitable for prolonged, uninterrupted use without disturbing the work environment.

Working Principle

Material is fed automatically via a screw feeder into the crushing chamber, where it's evenly distributed onto a hardened grinding disk. Under high-speed rotation, constant collision and friction between the material and disk gradually pulverize the sample. The crushed material is screened to meet particle size standards, while a dust-absorbing device keeps the environment clean. An automatic power-off system ensures operator safety when the door is opened.

Application Areas

1. Coal industry: for preparing and crushing coal samples, compliant with national standards, supporting coal quality analysis and testing.
2. Electric power industry: analysis and testing of fuel samples (coal, oil, etc.) for power companies, aiding in fuel quality and performance assessment.
3. Iron and steel metallurgy: crushing ore and iron ore samples for reliable data in ore analysis and quality testing.
4. Geology and building materials: pulverizing rock, mineral, and related samples to support experimental analysis and quality control.

- 5. Third-party testing: widely used in physical and chemical analysis of solids (coal, ores, etc.), providing fast and efficient sample preparation for testing organizations.

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Model	T150B
Feed size	less than 3mm
Output size	less than 0.2mm
Production rate	12kg per hour
pulverizer power	0.75kw
Dust extraction motor	0.18kw
Power supply	three phase 380Vac
Weight	100kg
Dimensions	720x600x540mm